



C. B. Subrahmanyam, Ph.D.
Ecologist/Biologist

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28 April 2005

Mr. Gary Johnson
Director, Growth and Environmental Management
Leon County
3401 West Tharpe Street
Tallahassee, FL 32303

Dear Mr. Johnson:

I would like serve as a member of the Blue Ribbon Committe to evaluate the streamlining of the permitting process. As directed by your office, I am submitting a copy of my resume for your perusal. Thank you for your consideration.

Sincerely,


C. B. Subrahmanyam

1257 Cornerstone Lane, Tallahassee, FL 32310

CURRICULUM VITAE

Name: Chebium B. Subrahmanyam
Citizenship: United States of America
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EMPLOYMENT RECORD

2003-Present Part-time teaching at FAMU and Tallahassee Community College
2002-2003 Chairman, Department of Biology, FAMU
1993-2002 Professor of Biology (Tenured), Florida A & M University, Tallahassee, Florida 32307
1987-1993 Chairman, Department of Biology, FAMU
1980-1987 Professor of Biology, FAMU
1977-1980 Associate Professor of Biology, FAMU
1971-1977 Assistant Professor of Biology, FAMU
1969-1971 Post Doctoral Fellow, Department of Oceanography, Florida State University, Tallahassee, FL 32306
1966-1969 Graduate Research/Teaching Assistant, Mississippi State University, Starkville/Ocean Springs, Mississippi.
1961-1963 Senior Research Assistant, Marine Fisheries Research
1957-1961: Institute, Government of India.

EDUCATION

Ph.D. 1969 Mississippi State University, U.S.A.
Major: Zoology Minor: Marine Biology
Dissertation: The Relative Abundance and Seasonal Distribution of Penaeid Shrimp Larvae off the Mississippi Coast
M.Sc. 1963 University of Madras
Major: Marine Biology
Thesis: Reproductive Cycle of the Prawn *Penaeus indicus* and Development of a few Fishes of Madras Coast
M.A. 1957 University of Madras
Major: Zoology Minor: Botany Special: Entomology
B.Sc. (Hon's) 1956 Madras Christian College
Major: Zoology, Minor: Botany, Special: Entomology

Certificate in French 1964	University of Madras. One year program Passed with Distinction
Diploma in German 1961	University of Madras. Two year program Passed with Distinction

PROFESSIONAL RECOGNITION

March 1995	Invited to present a paper on the Fishes and Invertebrates of Gulf Coast Marshes by the Apalachicola Estuarine Research Reserve and the Florida Coastal Management Program. Workshop on Marshes of the Gulf Coast.
1978-present	Invited by the Gulf Estuarine Research Society and the Estuarine Research Federation to present papers pertaining to my research on salt marsh ecology
1982-1986	My research papers were cited in three text books: (1) Fishes by P. Moyle & J. Cech (2) Animals of Salt Marsh by R. Daber (3) Salt Marsh Invertebrates by R. Heard
1978-present	Review proposals submitted to Sea Grant and N S F
1976-present	Referee for scientific papers submitted to Bulletin of Marine Science, Estuaries and Contributions in Marine Science. These are national journals in marine biology.

HONORS AND DISTINCTIONS

1997	Awarded Professorial Excellence Award (PEP) by FAMU
1996	Awarded Teacher Incentive Program Award (TIP) by Florida A & M University for excellence in teaching
1992	Academic Advisor of the Year. Given by Biology Majors, Department of Biology, FAMU
1991	Session Chair, Estuarine Research Federation Conference, New Orleans
1987	Vice President of Gulf Estuarine Research Society
1986	Member, Executive Committee, Gulf Estuarine Research Society
1974	Distinguished Service Award, by Biology Majors, FAMU
1971	Teacher of the Year, given by Biology Majors, FAMU

TEACHING ACTIVITIES

Graduate:1991-2003:	History of Biology Evolutionary Biology Ecological Processes Terrestrial Ecology	Special Topics Environmental Ecology Marine Biology Statistical Ecology
Undergraduate: 1970-Present	General Biology I, II Vertebrate Zoology Animal Behavior Evolutionary Biology Vertebrate Physiology Ecological Systems	Introduction to Ecology Marine Biology History of Biology Comparative Anatomy Biological Science (Non-Majors)

COMMITTEES

1993-2003	Graduate Program Coordinator, Biology M.S. Program
1996-1998	Thesis Director, Tacita Carter. Marsh Grass Productivity
1994-1996	Member, Ph.D. Committee for two graduate students in Pharmacy: Lisa Tonner and Donna Banks
1994-1996	Thesis Director, M.S. Degree Student in Biology Gregory Marks. Fish Communities of a tidal creek and seagrass beds
1992-1996	Member, Thesis Committee for M.S. Students in Biology Ms. Lie Chen, Osman Joasil and Barbara Hamil
1991-1993	Thesis Director, M.S. Degree Student in Biology Errol Mortley. Effects of Mercury and Cadmium on Marine Fish species
1971-2003	Undergraduate curriculum committee, Program Review Committee for Self Study and SACS Self-Study Committee

RESEARCH ACTIVITIES

Community Ecology	<u>1973-Present</u> . Ecology of plant animal communities in salt marshes, estuaries and seagrass beds. Community structure, seasonal variations, trophic structure and causal relationships. Spatial patterns.
Physiology	<u>1980-1990</u> . Respiratory patterns and spatial distributions of estuarine fish species. <u>1957-1963</u> . Reproductive physiology of marine shrimp (Penaeidae). <u>1969-1970</u> . Circadian activity and respiration of pink shrimp of Florida.

Mariculture	<u>1969-1970</u> . Study of growth of juvenile shrimp fed with pelletized food with different formulations. Induce maturation in female penaeid shrimp in lab.
Oceanography	<u>1966-1969</u> . Dissertation research. Recording water quality data from 10 to 100 meters depth; sampling bottom fauna; and collecting plankton samples to study the breeding ecology of penaeid shrimp.
Marine Biology	<u>1961-1963</u> . Study of early development of marine fish species. Eggs were raised in lab under control.
Fishery Biology	<u>1957-1961, 1963-1965</u> . Study the biology, fisheries aspects of commercial shrimp including landings and conditions that influence catches. Shrimp production, population dynamics and migrations.

RESEARCH PROJECTS

1996-1997	Metabolic Characteristics of Fish Species that link Marine and Estuarine Systems. Submitted to NSF. Not funded.
1995	Ecology of the Snowy Plover on the Northern Florida Gulf Coast. Florida Fish and Non-Game Division. \$ 40,000/yr. Submitted in November 1995. Not funded
1978-1986.	Interrelations of Salt Marsh and Estuarine Animal Communities. U.S. Dept. of Agriculture. \$480,000.
1975-1978	Value of Tidal Marshes. CSRS.. USDA. \$150,000.
1976	Individual and Synergistic Effects of Pesticides on Marine Organisms. U.S. Env. Prot. Agency. \$36,000.
1973	Ecology of Salt Marshes. Star Project. BOR of the SUS of Florida. \$33,000.
1973-1975	Productivity of Salt Marshes. CSRS, USDA. \$120,000.
1971-1973	Dredge and Fill Effects on Salt Marshes on West and Northern Coasts of Florida. CSRS, USDA. \$ 110,000.

FACULTY ACTIVITIES

1. Counseling	Counseling 30-45 undergraduate biology majors for academic progress. Recommend for graduation.
2. Committees	Three Departmental Committees. Graduate Program Coordination. Ph.D. and M.S. Committees. Institutional Review Board. Research Committee. Marine Science Enhancement Committee of FAMU for N M F S.

MEMBERSHIP IN SOCIETIES

1. Sigma Xi
2. Gulf Estuarine Research Society
3. Estuarine Research Federation
4. Florida Academy of Sciences
5. Association of Southeastern Biologists

PUBLIC SERVICE

1. Science Fair Judging: Nims, Raa Middle Schools; FAMU DRS; Godby High School and North Florida Christian Academy.
2. Regional Science Fair Judging: Leon, Wakulla and Jefferson Counties.
3. Volunteer teaching: Local high schools. Leon Co. volunteer.
4. 4-H Volunteer Leader: Marine Biology Club and Forest Ecology Club

OTHER ACTIVITIES

1. Photography of birds and wildlife
2. Photography of wild flowers
3. Desktop publishing using graphic programs and photo editing on computers
4. Developing audio-visual aids for teaching purposes using computers
5. Took two courses in Color Photography and Portfolio in 1994
6. Attending seminars conducted by Microsoft, Quark, Adobe and Macromedia for learning graphics and page layout techniques in depth.

Other Skills

Proficiency in operating the following programs

1. Word Processing programs such as Microsoft Word, Word Perfect
2. Graphic programs such as FreeHand, Illustrator and Canvas
3. Photo editing program such as Photoshop
4. Page lay-out programs such as QuarkXpress and InDesign
5. Presentation programs such as Power Point and Key Note (Apple)

PUBLICATIONS
(In Chronological Order)

1. Subrahmanyam, C.B. 1957. Relationship between body weight and oxygen consumption in *Emerita asiatica* (M.Edw.). Current Science 26: 155-156.
2. Subrahmanyam, C.B. 1962. Oxygen consumption in relation to body weight and oxygen tension in the prawn *Penaeus indicus* (M.Edw.). Proc. Indian Acad. Sci. Pt.B, 55:152-161.
3. Subrahmanyam, C.B. 1963. A note on the reproductive cycle of the prawn *Penaeus indicus* (M.Edw.) off Madras coast. Current Science 32: 165-166.
4. Subrahmanyam, C.B. 1963. On the bionomics and fishery of *Metapenaeus affinis* along the Malabar coast. Indian J. Fisheries 10: 11-22.
5. Subrahmanyam, C.B. 1964. Development of two carangids from Madras. J. Mar. Biol. Assn. India 6: 142-146.
6. Subrahmanyam, C.B. 1965. The reproductive cycle of *Penaeus indicus* (M.Edw.). Male and female reproductive systems. J. Mar. Biol. Assn. India 7: 284-290.
7. Subrahmanyam, C.B. 1965. On the unusual occurrence of penaeid eggs in the inshore waters off Madras. J. Mar. Biol. Assn., India 7: 83-88.
8. Subrahmanyam, C.B. 1966. Development of two more carangids from Madras. J. Mar. Biol. Assn. India 8: 188-192.
9. Subrahmanyam, C.B. 1969. The relative abundance and distribution of penaeid shrimp larvae off the Mississippi coast. Dissertation Abstracts B, 2966B. Zoology.
10. Subrahmanyam, C.B., & C.H. Oppenheimer. 1970. Food preferences and growth of grooved penaeid shrimp. Proc. Symposium of Food and Drugs from Sea. University of Rhode Island: 65-75.
11. Subrahmanyam, C.B., & G. Gunter. 1970. New penaeid shrimp larvae from the Gulf of Mexico (Decapoda, Penaeidae). Crustaceana 19: 94-98.
12. Subrahmanyam, C.B., & C.H. Oppenheimer. 1971. The influence of feed levels on the growth of grooved penaeid shrimp in mariculture. Proc. First Annual Workshop, World Mariculture Society, Galveston, Texas: 91-100.
13. Subrahmanyam, C.B. 1971. Descriptions of shrimp larvae (Family Penaeidae) off the Mississippi coast. Gulf Research Reports 3: 241-258.
14. Subrahmanyam, C.B. 1971. The relative abundance and seasonal distribution of penaeid shrimp larvae off the Mississippi coast. Gulf Research Reports . 3: 291-345.
15. Subrahmanyam, C.B., & S.H. Drake. 1975. Studies on the animal communities of two north Florida salt marshes. Part I. Fish Communities. Bull. Mar. Sci. 25: 445-465.
16. Subrahmanyam, C.B., W.L. Kruczynski, & S.H. Drake. 1976. Studies on the animal communities of two north Florida salt marshes. Part II. Macroinvertebrate communities. Bull. Mar. Sci. 26: 172-195.

17. Subrahmanyam, C.B. 1976. Tidal and diurnal rhythms of locomotory activity and oxygen consumption in the pink shrimp, *Penaeus duorarum*. Contr. Mar. Sci. 20: 123-132.
18. Kruczynski, W.L., C.B. Subrahmanyam, & S.H. Drake. 1978a. Studies on the plant community in a north Florida salt marsh. Part I. Primary production. Bull. Mar. Sci. 28: 316-334.
19. Kruczynski, W.L., C.B. Subrahmanyam, & S.H. Drake. 1978b. Studies on the plant community in a north Florida salt marsh. Part II. Nutritive values and decomposition. Bull. Mar. Sci. 28: 707-715.
20. Kruczynski, W.L. & C.B. Subrahmanyam. 1978. Distribution and breeding cycle of *Cyathura polita* (Isopoda: Anthuridae) in a *Juncus roemerianus* marsh of north Florida. Estuaries 1: 93-100.
21. Subrahmanyam, C.B. 1978. Polychaete colonization of a dredge spoil island. Quarterly. J. Florida Acad. Sci. Suppl. 1: 23.
22. Coultas, C.L., G.A. Breitenbeck, W.L. Kruczynski, & C.B. Subrahmanyam. 1978. Vegetative stabilization of dredge spoil in north Florida. J. Soil & Water Conser. July-Aug.: 183-185.
23. Subrahmanyam, C.B., & W.L. Kruczynski. 1979. Colonization of polychaete annelids in intertidal zone of a dredged material island in north Florida. Proc. 2nd International Ecological Congress, Jerusalem, Israel. Statistical Ecology Series. Vol. VI. 279-296. International Coop. Publishing House, Maryland.
24. Subrahmanyam, C.B., & C.L. Coultas. 1980. Studies on the animal communities of two north Florida salt marshes. Part. III. Seasonal fluctuations of fish and macroinvertebrates. Bull. Mar. Sci. 30: 790-818.
25. Subrahmanyam, C.B. 1980. Oxygen consumption in relation to oxygen tension in a few salt marsh-estuarine fish. Comparative Biochem. Physiol. 67A: 129-133.
26. Subrahmanyam, C.B., K. Maddox, & A.S. Shetty. 1981. The effects of three common pesticides on the survival of sheepshead minnow, *Cyprinodon variegatus* Lacepede. J. Basic & Applied Sciences 39: 5-10.
27. Subrahmanyam, C.B. 1981. The role of salt marshes in the production of fishes. Eighth Annual Conference of the Florida Defenders of the Environment, Cedar Key, Florida. Florida A & M University Research Bulletin XXIV: 65-77.
28. Horlick, R.G., & C.B. Subrahmanyam. 1983. infaunal communities in a tidal creek in a north Florida salt marsh. Northeastern Gulf Science 6: 79-89.
29. Subrahmanyam, C.B. 1984. Colonization of macroinvertebrates on a dredge spoil island. Northeastern Gulf Science 7: 61-76.
30. Subrahmanyam, C.B. 1985. Fish communities of a bay and estuarine-salt marsh system in north Florida. In A. Yanez Arancibia (Ed.) Fish Community Ecology in Estuaries and Coastal Lagoons. Chap. 9. University of Mexico, Mexico city, Mexico. 191-206.

31. Durako, M., J. Browder, W.L. Kruczynski, C.B. Subrahmanyam, & E. Turner. 1985. Florida aquatic habitat and fishery resources: The salt marshes. Proc. Third Annual Meeting of the American Fisheries Society, Florida Chapter. Florida Sea Grant Special Publications. P. 189-280.
32. Lipcius, R.M., & C.B. Subrahmanyam. 1986. Temporal factors influencing killifish abundance and recruitment in Gulf of Mexico salt marshes. Estuarine, Coastal and Shelf Science. 22: 101-114.
33. Subrahmanyam, C.B. 2003. Dynamics of fish populations in a north Florida estuary. Estuarine, Coastal and Shelf Science. In Review.

Books

1. Subrahmanyam, C.B. 2004. A PHOTOGRAPHIC GUIDE TO THE COMMON BIRDS IN THE BIG BEND OF NORTHERN FLORIDA. Manuscript in preparation .
2. Subrahmanyam, C.B. 2003. PRINCIPLES OF ECOLOGY. Undergraduate ecology text. 2003. Third Edition 2003. 379 p.
3. Subrahmanyam, C. B. 2002. ANIMAL BEHAVIOR. Undergraduate text book for the course in Animal Behavior. Third Edition 2002.
4. Subrahmanyam, C. B. 2003. Laboratory Manual for BSC 1011, General Biology II. 150 p.

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